



Missouri S&T Magazine, April 01, 1935

Miner Alumni Association

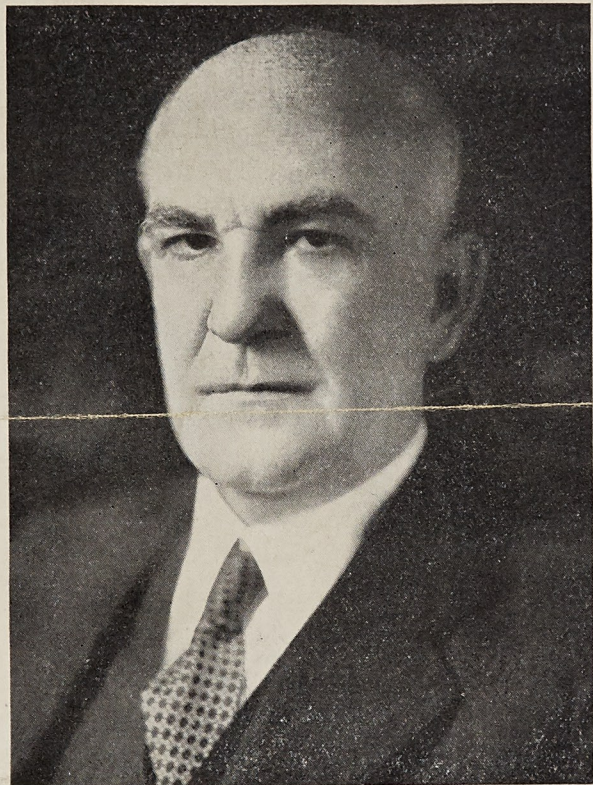
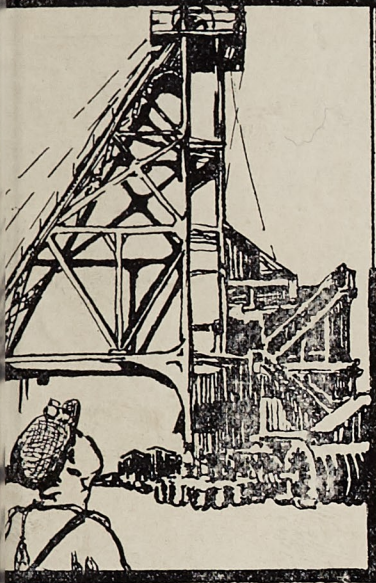
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MSM ALUMNUS



DR. H. A. BUEHLER (The Chief)
President, American Institute of
Mining and Metallurgical Engineers.

Volume
Nine

April 1, 1935.

Number
Two

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Commencement Week Program

1935

Sunday, May 19—11:00 A. M. Parker Hall

Baccalaureate Sermon

Doctor James T. Mordy, Minister
Cottage Grove Avenue Presbyterian Church
Des Moines, Iowa

Wednesday, May 22—8:00 P. M. Chemistry
Lecture Room

Sigma Xi Lecture

Friday, May 24—7:15-9:30 P. M. Director's
Residence

Director's Reception to Students,
Faculty and Visitors

Commencement Ball—9:30 P. M. Gymnasium

Saturday, May 25—10:00 A. M. Parker Hall

Commencement Exercises

Address by Doctor George W. Stephens
Washington University
Saint Louis, Missouri

HOME COMING

Saturday, October the 19th

2:00 pm Miners vs Springfield Teachers

6:15 pm Banquet

9:30 pm Dance, Jackling Gymnasium
Auspices St. Pat's Board

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THE MISSOURI MINER

PUBLISHED WEEKLY
DURING THE SCHOOL
YEAR BY THE STUDENTS

SUBSCRIPTION

\$1.50 YEAR

MSM ALUMNUS

ALUMNI ASSOCIATION, SCHOOL OF MINES AND METALLURGY, ROLLA, MISSOURI

Volume Nine.

APRIL 1, 1935.

Number Two.

St. Pat's Celebration

By William McDill, '35

The social spot-light of the Missouri School of Mines and Rolla was focused on Jackling Gymnasium, Friday night, March 16th, when the masque ball and crowning ceremonies marked the climax of the annual three-day celebration in honor of the venerable patron saint of engineers, St. Patrick.

The colorful program began Friday evening with the arrival of the curiously garbed couples, all prepared to dance and enjoy the music of Henry Busse and his nationally famous orchestra.

The gymnasium was decked out in a transformation of red plush wall coverings, metallic fabric trimmings, and a green cloth ceiling. The bright spot of the room was the throne from which St. Pat reigned over his subjects. The design of this throne followed that provided last fall for the famous Veiled Prophet's Ball in St. Louis. The dias was much higher than in former years. This served to bring the scene into the view of all the dancers. Surmounting the throne was a canopy of green and yellow supported by two gilded poles capped with lighted dragon heads.

Promptly at midnight, the helmeted guards cleared the way for the entrance of the royal party. St. Pat, impersonated by Frederick W. Arnold, entered the room attired in his royal robes. Next entered the retiring queen, the former Mickey Coffman, now Mrs. Rex Monroe, escorted by John E. Harrod, president of St. Pat's Board.

Then followed the Maids to the Queen, representing the various social organizations. These were in their order of entrance: Sigma Pi, Miss Jane Wright, St. Louis; Kappa Alpha, Miss Naomi Berwick, Rolla; Lambda Chi, Miss Dorothy Warting, St. Louis; Mercier, Miss Sybil Powell, Rolla; Kappa Sigma, Miss Vance Thomure, Bonne Terre, Mo.; Pi Kappa Alpha, Miss Mary Williams, Mexico; Sigma Nu, Miss Lucille Parker, Lamont, Mo.; Triangle, Miss Ruth Brown, Knoxville, Tenn.; Independents, Miss Imogene Hinsch, Rolla.

The pathway to the throne was then prepared for the entrance of the new queen. Four little flower girls carpeted the way with rose petals. These little girls were Nancy Lee Cairns, daughter of Mr. and Mrs. A. L. Cairns; Ann Dooley, daughter of Mr. and Mrs. G. A. Dooley; Babette Fuller, daughter of Mr. and Mrs. Ivan Fuller and Mary Lou Fort, sister of the Queen and daughter of Mr. and Mrs. A. S. Fort.

CORONATION CEREMONY

The climax of the ceremony came with the entrance of the Queen of St. Patrick, Miss Dorothy Fort. She was beautifully gowned in an accordin pleated white silk crepe gown and carried a large bouquet of red roses. She knelt before the sovereign while he removed the crown from the head of the retiring queen, and with appropriate remarks, placed the jewel on the head of the new sovereign lady who will reign for a year. St. Patrick escorted his new lady to the throne, where the pair sat while Alan MacEwan, Rolla-amo photographer, made a picture of the scene.

The party retired in the order which they came in, with the exception of the Queen, who was escorted by St. Pat.

From 11:00 p. m. until 1:30 a. m., the program was broadcast in detail by radio station WOS thru a special wire to Jefferson City, Mo. Reports have been received that the broadcast was clear and distinctly heard.

A large crowd of spectators filled the gallery during the ceremony, and many remained to watch the gayly attired couples as they danced and frolicked to the music.

The formal ball held Saturday night, drew the larger attendance of the two dances. This was probably due to a

(Continued on Page 5)

Miners Join M. I. A. A.

By Coach Harold Grant

I have been asked a number of times the reasons for our withdrawing from the Missouri College Athletic Union and joining with the Missouri Intercollegiate Athletic Association.

The M. I. A. A. is an athletic conference made up of the five state teachers colleges of Missouri, namely: Cape Girardeau, Maryville, Kirksville, Springfield and Warrensburg. Outside of the University of Missouri, the School of Mines was the only state school not a member of this conference; and it was asked to apply for admission. This makes a 6-school conference of schools with equal strength in all branches of athletics.

No doubt, this will create much more interest throughout the State of Missouri in the athletics of this conference and particularly in the Missouri School of Mines.

The reason for our joining the M. I. A. A. was the inability of scheduling football games in the M. C. A. U. The games we played gave us no standing and schedules were hard to arrange; often times it was necessary to schedule teams to our disadvantage.

In the M. I. A. A. every team is required to play every other team of the conference, in both football and basketball. This makes five football and ten basketball games each year and much interest will be aroused after each week's games in the standing of the six teams in the conference.

The competition in the M. I. A. A. will be particularly strong in basketball and track. They always have two or three outstanding football teams, Kirksville having won twenty-six consecutive victories. I consider the competition much stronger than was offered in the M. C. A. U.

The Miners must put forth their best efforts at all times if they expect to compete successfully in the M. I. A. A. Our first competition will be the conference track meet the second week in May at Warrensburg, Mo.

Bonanza Club Alumni Join Alpha Lambda Tau

Twenty-seven members of the Bonanza Club returned to Rolla for the festivities of the St. Pat's celebration and to be inducted into the national fraternity of Alpha Lambda Tau. Although the Bonanza Club was organized during the spring of 1914, it did not function as an organization until the fall semester of 1914. After moving the fraternity around to various houses in town, the club finally bought the house at Seventh and Cedar Street, now the home of Dr. C. E. Bardsley. The Bonanza closed its doors in May 1932. The club possessed prowess in athletics and for three consecutive years won the Tau Beta Pi Scholarship Cup. The Bonanza Club passed 180 Miners through the house.

The Bonanzas initiated were: P. N. Ashlock, C. E. Bardsley, C. F. Boismenue, A. H. Boyle, G. J. Christner, E. E. Decker, A. F. Denison, H. M. Diers, R. S. Dittmer, W. C. Durning, L. H. Goldman, R. K. Grantham, E. M. Guy, S. M. Hayes, A. R. Helmkamp, Julius Hynes, Harold Hutchinson, W. F. Lottmann, Lawrence Maher, E. C. Miller, H. R. Osterwald, F. M. Thoroughman, E. R. Tragitt, H. J. Schiermeyer, M. N. Bedell, H. J. Murphy and M. S. Badollet.

The initiating team consisted of Harry R. Maugans, National Secretary of Alpha Lambda Tau of Atlanta, Georgia and the following men from the University of Arkansas at Fayetteville; C. L. Hendren, Ralph Ellington, Geo. Dilling, Leo Stetner, and LeRoy Tyson.

It is expected that at each Homecoming of M. S. M. and

(Continued on Page 10)

Basket Ball

By Basil C. Compton, '38

Playing their last M. C. A. U. schedule the Miners split even with the championship Westminster five, and also with the second place Drury team.

Against the stronger Missouri Intercollegiate Athletic Association teams, the Silver and Gold did not fare so well dropping two decisions to the Springfield Teachers, and dividing a pair of contests with Abe Stuber's Cape Girardeau squad. The Miners also dropped two games to St. Louis University, one in St. Louis and another on the local court, as the Billikens made their first appearance in Rolla in seven years.

The appointment of Elmer Kirchoff as head basketball coach, was also one of the features of the season. Kirchoff, an East St. Louis product, is a student of the School of Mines, and is an all-around athlete, having played end on the 1932-1933 football elevens, forward on the 32-33, 33-34 basketball fives, and engaging in baseball during the summer months. He was chosen all-state end on the 1932 grid team and was only prevented from repeating in 33 because of injuries.

At the start of the season, Kirchoff had six veterans on which to build his team: Robert Prange, Robert Lange, Herman Pfeifer, Jim McGregor, Gus Wommack and Eager Nixon. Captain-elect Mooney's failure to return to school necessitated election of a new captain. After due consideration, Nixon, the only senior on the team, and Pfeifer, husky defense man, were appointed Co-Captains.

Featuring two freshmen, Gordon Moreland at guard, and Floyd Watts at forward, the Miners opened their season on Dec. 15, invading the Cape Girardeau court to nip the Teachers 26 to 25, in a very close battle. Pfeifer, was high point man in this game with ten points. The Cape squad was rated as one of the best in Missouri, and their defeat at the hands of the Miners was credited by many fans as the cause of the slump into which they fell.

Returning to Rolla for their last game before the Christmas holidays the Miners walked over the Central Wesleyan five, 30 to 23. Co-Captains Nixon and Pfeifer were "hot" in this battle, scoring eight points apiece. Returning after the vacation, the Silver and Gold journeyed to Springfield where they suffered their first setback of the season, losing 18 to 13 on the small court and under the dim lights. Pfeifer continued his scoring streak in this game, by flipping in seven field goals.

On January 11, the Miners again broke into the win column, taking Drury College into camp, 18 to 16. Robert Prange, elongated center, led the Engineers with six points in the game on the local court. After a week and a half of rest, while exams were under way, the Miners again went into action, meeting the Springfield Teachers in a return game in Jackling Gym. "Off" their game because of lack of practice, the Miners emerged on the short end of a 28 to 13 score.

Invading northwest Missouri on their first extended road tour of the season, the Silver and Gold trimmed the William Jewell cagers, 27 to 25, and the Missouri Valley quintet 32 to 26, on successive nights, for their fourth and fifth victories against two defeats. It was here that a long string of injuries started. Floyd Watts, freshman forward, cracked a shoulder blade, and was out for the rest of the season. Pfeifer, mainstay of the games so far in the season, also was hurt and as a result missed several games.

Moving over to St. Louis three days later, the Miners played one of their best games of the season, only to lose to St. Louis University by the score of 48 to 32. Reade Beard, substitute forward, came through with twelve points to lead the Miners in scoring. As a result of the game, James M. Gould, writing in the St. Louis Post-Dispatch said, "There are no more sportsmanlike teams than those from Rolla. The boys, hard fighters, all, never protest a decision. It is a pleasure to see such teams in St. Louis."

Returning to Rolla, with but one day's rest, the Engineers lost a thrilling overtime contest to the Tarkio Owls, 38 to 36. Tied 34 to 34 at the end of the regular playing time, both teams battled through a scoreless overtime period. In the second extra stanza Tarkio scored twice only to have

Bob Lange, Miner forward, slip in a setup as the final gun sounded. It was the fastest game played on the Jackling Gym court all year.

Extending their losing streak two more games, the Kirchoff men lost to the high-flying Westminster Blue Jays 36 to 24 at Fulton, and to Drury College 31 to 24 at Springfield. Pfeifer took the pivot position in the two games, the post vacated by Bob Prange, when he was ruled out of athletics for six months because of a bad heart. Nixon and Pfeifer were the scoring aces in these contests, both making twelve points in the two games.

On Feb. 18, the St. Louis squad called at the local gym and when the final gun went off, the Billikens were ahead 50 to 38. Against their rivals, the Miners again played one of their best games of the season, losing only because of the weird shots the visitors used. Jim McGregor, flashy football back, starred in this game, leading both teams with eighteen points.

Snapping their losing streak, which had reached the proportions of five straight losses, the Engineers upset the M. C. A. U. champion Westminster club, 39 to 18, in a return game here at Rolla. McGregor was high point man, adding ten more points to his total. Calling for a return battle, the Cape Girardeau Indians went home ahead of a 46 to 38 score, playing on the night of Feb. 25.

Ending their season in a blaze of glory, the Miners "waltzed" over the Missouri Valley five, 39 to 27, and the Central cagers, 28 to 18, in games played on the home court. Gordon Moreland, freshman guard, and Jim McGregor did most of the scoring for the Engineers.

McGregor led the team in scoring, ending up with 90 points for the season. Pfeifer was second high with 70, followed by Eager Nixon with 57, and Moreland with 51. The Miners scored 457 points for the season, averaging 28.5 per game. Their opponents scored 473 for a 29.5 average.

The prospects for an excellent season next year are rosy. Only two men, Eager Nixon and Jim (Stretch) Murphy are lost to the squad through graduation. Pfeifer, McGregor, R. Prange, H. Prange, Watts, Lange, Clayton, Beard, Busch, Moreland, Wommack and Ellis are the returning men.

FINAL COMPOSITE BOX SCORE.

(Including 16 Games)

PLAYER	Games	F. G.	F. T.	F.	T. P.
Watts, f.	9	11	8	7	30
Lange, f-c.	14	18	11	15	47
Nixon, f.	16	22	13	29	57
McGregor, f-g.	15	30	30	19	90
Ellis, f-g.	11	11	4	19	26
Beard, f.	11	14	5	11	33
Clayton, f.	6	1	0	2	2
Murphy, c.	7	7	11	11	25
R. Prange, c-g.	9	11	2	14	24
H. Prange, c.	3	0	0	0	0
Pfeifer, f-c-g.	14	29	12	21	70
Wommack, g.	8	0	0	5	0
Moreland, g.	13	18	15	13	51
Busch, g.	5	0	0	1	0
Gardner, g.	1	0	0	0	0
Smith, g.	1	1	0	0	2
TOTAL		173	111	167	457

Final Intramural Basketball Standing

TEAM	W.	L.	Pct.
Freshmen	10	0	1000
Sophomores	8	2	800
Pi K A's	7	3	700
Sigma Nu's	7	3	700
Seniors	7	3	700
Merciers	6	4	600
Lambda Chi's	4	6	400
Kappa Sig's	2	8	200
Triangles	2	8	200
Sigma Pi	2	8	200
Juniors	0	10	000

MSM ALUMNUS

Issued quarterly, in the interest of the graduates and former students of the School of Mines and Metallurgy. Subscription price 50 cents, included in Alumni dues.

Entered as second-class matter October 7, 1926, at Post Office at Rolla, Missouri, under the Act of March 3, 1879.

Officers of the Association

R. P. Cummins, '05.....	President
B. F. Murphy, '10.....	Vice-President
Chas. Y. Clayton, '13.....	Treasurer
K. K. Kershner, '20.....	Secretary
M. H. Thornberry, '12.....	Recorder

Staff

Chas. Y. Clayton, '13.....	Editor in Chief
David F. Walsh, '23.....	Assistant to the Editor
K. K. Kershner, '20.....	Circulation Manager
Basil Compton, '38.....	Sports Editor
W. C. Zeuch, '18.....	Associate Editor

St. Pat's Celebration

(Continued from Page 3)

greater number of out-of-town guests being able to attend that night.

The affair was a financial success according to the president, J. E. Harrod. Despite unfavorable conditions beyond the control of the Board, a large number of alumni and friends came to Rolla to enjoy the celebration. Unusually fine weather favored the celebrants, and only a slight shower appeared to dampen the three days.—*The Herald*.

Cooperative Publications U. S. Bureau of Mines and Missouri School of Mines 1934-1935

"Flotation and Depression of Nonsulphides: Calcite, silicate and silicates, fluorspar, barite, apatite, and tungsten minerals." U. S. Bureau of Mines Report of Investigations 3239, June, 1934, pp. 9-26.

"Amenability of Various Iron Ores to Rigorous Concentration." U. S. Bureau of Mines Report of Investigations 3229, May, 1934, pages 7-33.

"Statistics on Early and Recent Ball Mills and Concentrators of the United States." Colorado School of Mines Magazine, Vol. 24, No. 7, July, 1934, Page 5.

"Conducting Grinding Tests for Easy Interpretation of Results." U. S. Bureau of Mines Report of Investigations 3239, June, 1934, Pages 3-8.

"Occurrence and Ore Dressing Possibilities of the Ores of Manganese in the United States." Chapter 4 of U. S. Bureau of Mines Information Circular 6768, May, 1934, pp. 23-98.

"Study of Reduced Ferberite as a Substitute for Ferrotungsten." U. S. Bureau of Mines Report of Investigation 3229, May, 1934, pages 65-70.

"Stencil Method Simplifies Metallurgical Calculation." Eng. and Min. Jour., Vol. 135, Mar., 1934, pp. 117-118.

"Review of Fine Grinding in Ore Concentrators." U. S. Bureau of Mines Information Circular 6757, January, 1934.

"Ball Milling." American Institute of Mining & Metallurgical Engineers Technical Publication No. 517, 1934.

"Advantage of Ball (Rod) Mills of Larger Diameters and Advantage of Improving Bearings." Milling Methods Volume of AIME, 1934, pp. 79-87 (with discussion), Feb. 1935.

"Concentration of the Potash Ores of Carlsbad, N. Mex. by Ore Dressing methods." U. S. Bureau of Mines Rept. Inv. 3271, Feb. 1935.

"The Mineragraphy and X-ray Analysis of Stainierite from the Swansea Mine, Goodsprings, Nev." (To be published in the April, 1935 issue of American Mineralogist).

"Beneficiating Cement Raw Materials by Agglomeration and Tabling." (In press; to be published as a Bureau of Mines Report of Investigation.)

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1935

FOOTBALL SCHEDULE

October	5—	McKendree College, At Rolla.
"	11—	St. Louis University, St. Louis*
"	19—	Springfield Teachers, Rolla
"	25—	Warrensburg Teachers, Warrensburg*
November	2—	Maryville Teachers, Rolla
"	8—	Oklahoma City University, Oklahoma City*
"	16—	Kirksville Teachers, Rolla
"	22—	Cape Girardeau Teachers, Cape Girardeau * Night games

Anniversary Is Observed

Missouri Miner of Two Decades Ago Began With
One-Page Two-Column Sheet

With this issue the Miner is passing the twentieth milestone of its career on the M. S. M. campus. After having traveled some smooth and some tortuous paths for the past two decades, it has developed from a two-column, single page, scandal and sport sheet to the near metropolitan proportions of the present edition.

The first attempt to publish a student paper was made in 1912 by Mr. A. W. Gleason, but his attempts were intermittent and met with very little enthusiasm and cooperation, so he gave it up as a bad job with a few sarcastic remarks about the amount of school spirit evident in the institution.

Again in January, 1915, plans were made by a few progressive students to include a newspaper in their extracurricular activities, and their ambitions were realized the first week in February when the weekly Miner made its first appearance under the editorship of J. L. Head. Fred Gotts was general manager, and C. E. Johnson, business manager.

The business manager's duties, consisting of collecting five cents per copy from each student who desired to read the news.

The general manager's time was occupied in keeping track of the editor and seeing that the copy was printed. That left the editor with nothing to do but avoid the general manager and maintain a general nuisance on the campus, which custom has been handed down and observed by subsequent editors up to and including our fast-moving and hard-writing incumbent.

It seems that several of the customs inaugurated with the initial issue have been carried on, and are evident on the campus today.

The principle one is the sarcastic remarks by the editor about the school spirit and the effect they have on the student body as a whole.

The co-operation and backing of the Alumni was an important factor in getting the paper started. The Alumni

(Continued on Page 10)

Campus Organizations

Tau Beta Pi

Tau Beta Pi continues to select from the students on the M. S. M. campus those men who not only possess the potentiality of successful engineers, as indicated by their scholastic marks, but who also have ability to become leaders, as evidenced by their activity in other organizations on the campus.

The officers and active members who returned to school last fall are W. H. Coddington, Pres.; D. W. Dutton, Vice-Pres.; Max M. Fischer, Corresponding-Secretary; R. H. Buck, E. D. Hoffman, W. H. McDill, G. T. Nolde, and A. T. Frank.

The men selected from the senior class this fall are H. Ishiguro, F. S. Holt, A. J. Boles, J. W. Mashek, R. J. Knoll, W. O. Neel, C. W. Snyder, E. A. Nixon, H. D. Dallmeyer, and G. A. Penzel. The honor junior this year was A. E. Woerheide. These students were initiated in December. Following the initiation a banquet was held at which Bro. A. S. Langsdorf, Dean of the Engineering School, Washington University, was the principal speaker.

The following have been selected from the Junior Class: E. J. Daily, J. R. Hubbard, R. H. Striker, W. H. Schwalbert, E. C. Fiss, and B. E. Peebles.

Mining and Metallurgical Association

The Mining and Metallurgical Society this year has had five very successful meetings and four more are scheduled. At the first meeting James P. Sloss was elected President, Dr. Garrett Muilenburg, Vice-president, and W. F. Reinmiller, Secretary-treasurer. The newly elected president spoke at this meeting on his summer's experience in New Mexico.

Mr. Karl Allebach was the society's second speaker, and in a very interesting manner described the mining method employed at Inspiration Copper Company. The next speaker, Dr. Reginald Dean, Chief Metallurgist, U. S. Bureau of Mines, told of new developments in the metallurgy of "Direct Steel".

Dr. Eugene Stephenson described at the next meeting the evolution of petroleum technology. On March 12th, Dr. Noel Stearn, consulting geologist of St. Louis, lectured on the Arkansas cinnabar deposits.

Dr. H. A. Buehler is the next speaker scheduled.

The Society voted to become affiliated with the American Institute of Mining and Metallurgical Engineers.

Ira Remsen Society

The Ira Remsen Society has held some very interesting meetings during the past year. Several prominent chemists and chemical Engineers have addressed the society. The following men were sponsored by both Ira Remsen and Epsilon Pi Omicron:

Mr. H. E. Wiedeman, Consulting and Analytical Chemist, St. Louis; Professor A. C. Magill, Chairman of Chemistry Division, Cape Girardeau Teacher's College; Professor Emery, Physics Department, Cape Girardeau Teacher's College; Dr. Lyman J. Wood, Chemistry Department, St. Louis University. The following men were sponsored by the General Lecture Committee, at which time the meetings were adjourned to the auditorium; Dr. S. C. Lind, Director, University of Minnesota; Dr. J. H. Mathews, University of Wisconsin; Dr. W. L. Badger, Professor of Chemical Engineering, University of Michigan. In the immediate future Dr. G. Egloff, Chief Chemist, Universal Oil Products Co., Chicago, Ill. will be a guest of both societies.

There were also some very interesting talks given by members of the senior class. The membership of this organization has increased considerably.

The officers are: H. F. Lange, Pres., O. H. Fager, Vice-pres., and T. G. Day, Secy. and Treas.

Sigma Xi

The School of Mines and Metallurgy Section of the Society of the Sigma Xi has lived up to the main objective of the society by encouraging original investigation in a number of ways. At the close of the last school year two students of chemistry, Oden C. Garst and John I. Moore, were honored with election to membership. On May 23rd, Dr. Lewis F. Thomas of Washington University delivered the annual Sigma Xi address. His subject was "The Geographic Evolution of Missouri". During the present school year five departmental meetings have been held and another is scheduled for April 9th. At these meetings the members are given an opportunity to present and to discuss their own researches. The number of non-members invited to attend these meetings has been larger this year than usual. Two prominent members of other chapters of Sigma Xi were entertained. On January 8, a dinner was held at the Sinclair Tavern in honor of Dr. J. Howard Mathews of the University of Wisconsin. On February 8, Dr. S. C. Lind of the University of Minnesota was entertained similarly.

The present membership of the Rolla section consists of 20 active members, 3 inactive members and 2 associate members. The officers are F. H. Frame, president; C. Y. Clayton, vice-president; and O. R. Grawe, secretary-treasurer.

A. S. M. E.

The first meeting of the year was held October 2, 1934, in Mechanical Hall. The following officers were elected for the year: President, George T. Nolde; Vice-president, August P. Koopmann; Secretary, Rudolph J. Knoll; Treasurer, Max M. Fischer.

The branch is now affiliated with the main branch of The American Society of Mechanical Engineers, a new system which enables the various branches to cooperate in a more efficient manner with the head branch.

Several members are contemplating a trip to Lincoln, Nebraska, to attend a student group conference at which student papers will be read.

Several meetings have been held at which out of town speakers have rendered their services. One of the most interesting speakers was Mr. Rabe, chief engineer of Anheuser Busch Company. Mr. Rabe has honored our society for the last few years with his illustrated technical lectures.

On Monday, March 18th, Mr. C. E. Davies, Secretary, American Society of Mechanical Engineers, addressed the society.

Phi Kappa Phi

The program included addresses by Dr. Fulton on "Beliefs", by Rev. D. G. Pinkston on "Professional Ethics", and discussion of the various aspects of the Tennessee Valley Project.

The chapter awarded vellum book plates "For High Scholarship" in the year 1933-34 to the upper fifteen percent of each class now in school. This recognition of a single year's good work broadens the contacts of the society.

The Society has requested its members to suggest to desirable High School graduates and other college material from their several communities that the Missouri School of Mines is a good place to get an engineering education.

Initiates: K. J. Boles, W. H. Coddington, W. B. Danforth, D. W. Dutton, M. M. Fischer, A. T. Frank, L. H. Green, E. D. Hoffman, F. H. Holt, R. J. Knoll, J. W. Mashek, G. T. Nolde, W. A. Peters, and W. H. McDill.

Officers: J. H. Steinmesch, President; H. L. Dunlap, Vice-president; E. W. Carlton, Secretary-treasurer; and R. M. Rankin, Corresponding Secretary.

General Alumni News

Metallurgy

R. S. Dean '15, Chief Metallurgist of the Bureau of Mines, gave a talk before the metallurgists on Tuesday, January 7th. His subject was "The Problem of Internal Surface in Metals and Alloys."

The Department of Metallurgy and Ore Dressing in cooperation with the Bureau of Mines and the Experiment has constructed a pilot plant in the Ore Dressing Laboratory for the purpose of testing the amenability of ores to gravity concentration. The plant when completed will consist of the following: Hindered settling classifier, Allen Cone, Settling tank, Elevator, Wilfley pump, and three concentrating tables all in closed circuit. The new Diester-Overstrom was presented to the department through the efforts of Don Griffin '26, Sales Engineer, and S. A. Stone, Assistant Manager of the Diester Concentrator Company in Ft. Wayne, Indiana.

Wm. Lenz '32, W. R. Gaddis '34, and E. L. McReynolds '34, during the first semester were experimenting to develop new methods of determining the effect of temperature upon the grain-size of low carbon steels. The present method, the McQuaid-Ehn Test, takes a considerable time. It is hoped to develop a shorter method.

"The Alloys of Iron and Copper" is the title of a book published this winter. The authors are J. L. Gregg and B. N. Daniloff. Gregg, who is now Research Engineer for Bethlehem Steel Company, graduated from MSM in metallurgy '23. Daniloff now Graduate Student at Carnegie Institute of Technology, graduated from MSM in metallurgy in '29. "Alloys of Iron and Molybdenum" and "Alloys of Iron and Tungsten" are two other books in this series. Gregg is the author of these.

"Tool Steels" is the title of a series of lectures given by J. P. Gill '18, before the New York Meeting of the American Society for Metals at the October meeting. These lectures are printed in book form by the society.

"Representative Properties of Cast Medium Pearlitic Steels" is the title of a paper by Fred Grotts '16. This paper is one of a number published by the American Society for Testing Materials in a Symposium on Steel Castings. Grotts is Metallurgical Engineer, Continental Roll & Foundry Company, East Chicago, Indiana.

Tom Eagan '25, is now Metallurgist with the Cooper-Bessemer Corporation, Grove City, Pennsylvania.

Joe Picco '32, is Assistant to the Metallurgist of the Link-Belt Company at Indianapolis, Indiana.

J. P. Gill '18, talked before the American Society for Metals at the American Annex Hotel in St. Louis on December the 14th. His subject "High Speed Steel" was well received by about 125 members and guests. Among those present were: Gene Stewart, Central Foundry Co., Bennie Gross, Key Boiler Equipment Co., Al Boyle and Skipper Bedell of Laclede Steel and Chas. Y. Clayton of the Metallurgy Department.

Al Hesse '32, is in the Metallurgical Department of the Western Cartridge Company at Alton, Illinois.

M. R. Edgar '33, is Metallurgical Chemist with the Titanium Corporation at Malvern, Arkansas.

R. E. Barthelemy, until recently director of the research department of the Societe d'Etudes & Exploitations Minieres de l'Indochine, Phontiou, French Indo China, has been appointed manager of the company. The company's tin mill has been enlarged and modernized and now has a daily capacity of 800 tons.

R. G. Knickerbocker '13, who has recently been employed in the Southwest, is now metallurgical engineer in charge of ore reduction for the Cuniptau Mining Co., Ltd., whose headquarters are at 465 Bay Street, Toronto. The company has a group of claims under development in the Temagami forest reserve, in northern Ontario.

F. S. Macklin '32, is with the U. S. Engineers. His home is at 912 Charlotte St., Kansas City, Missouri.

Elmer Gammeter '26, Walter Remmers '23, and J. Walter Scott '19, gave a series of lectures in Chicago during the winter.

V. O. Burkhalter '33, is employed by Eagle-Picher Lead Company in their Insulation Department, Joplin, Mo. He is living at 1814 Sergeant Ave., Joplin.

T. B. Kaczarke '32, is with the Illinois Steel, South Works, Chicago, Illinois.

Irvin Spotti '32, is with the Hanna Coal Company, St. Clairsville, Ohio.

Arthur C. Kroll '32, is at 2617 East 5th Place, Tulsa, Oklahoma.

Wm. H. Lenz '33, is with the American Rolling Mills. He lives at #30 Bundy Apartment, Middletown, Ohio.

Wendell F. Gaddis '34, is with the South Works of the Illinois Steel Company. His home is at 1430 East 67th Street, Chicago.

Wm. H. Knight '27, is living at Abbott Court South, Radburn, Fair Lawn, New Jersey.

Leo Linzer, ex '23, 892 Jackson Avenue, The Bronx, New York City.

Chas. Hueter '29, formerly with the National Zinc Company, Bartlesville, Okla., is at Route 3, c/o Mrs. R. W. Southard, Edwardsville, Ill.

E. L. McReynolds '34, has accepted a position with the Jones & Laughlin Steel Company of Pittsburgh, Pa.

Mining

Weigel, W. M., Mineral Technologist, Missouri Pacific Railroad, St. Louis, presented a paper on salt mining in the gulf area at the New York meeting of the AIME in February.

Fay, Albert Hill, now professor of mining at Lafayette, was co-author with W. B. Plant of a paper "The Influence of Rock Structure on Blasting", which was presented at the New York Meeting of the AIME in February. Fay is also the compiler of the Mining Glossary, Bulletin 96 of the U. S. Bureau of Mines.

Lohman, H. W., '04, President United Zinc Smelting Co., Moundsville, W. Va., and Mrs. Lohman, dropped in on a track meet last spring. Mr. Lohman was returning home after spending sometime on his company's properties in the Tri-State. The 30 year gap found Profs. Dean, Garret, Harris, Steinmesch, Fred Lane, and other old timers on the job.

Ambler, J. Owen, '06, is engaged for the year 1935 on special copper metallurgy problems for the world's oldest copper mine, Rio Tinto in Spain. Owen's headquarters are in London.

Shanks, John D., '06, is Mining Engineer and Manager of colliery for Brazeau Collieries, Nordegg, Alberta, Canada.

Cook, Paul R., '15, Vetoshny, Moscow, U. S. S. R., has sent interesting specimens and keeps the library supplied with very finely illustrated journals which depict the industrialization of Russia. Cook is doing examination and geologic work all over the country. A recent letter was from Uzbekistan in the Caucasus.

Easley, Geo. A., '09, was host to several miners at the "Mining Club", near the Battery in New York City, during the AIME meeting in February. This club has a daily luncheon and rather welcomes visiting mining engineers, especially if they can pull a good story. Easley is Vice President of the International Mining Corporation, 29 Broadway, New York.

Stewart, J. S. Jr., is metallurgist with Archer E. Wheeler, 25 Broadway, New York. Wheeler's organization built the Noranda and other large copper reduction plants.

Murphy, B. F., '10, Mine Supt., Doe Run Division, St. Joseph Lead Co., River Mines, Mo., conducted the 1935 miners through the mine and plant of this company at Flat River, Mo., last November.

Tedrow, Harvey L., '11, is Gen. Supt. London Gold Mines, Alma, Colorado.

Dye, R. E. '12, is author of Information Circular 6525 of the U. S. Bureau of Mines. Dye is mining and metallurgical Engineer at the Vipond Consolidated Ltd., Timmins Ontario, Canada.

(Continued on Page 8)

Mining

(Continued from Page 7)

Cronk, A. H., '12, is Supt. of the Rosiclare Lead & Fluorspar Mining Co., Rosiclare, Illinois.

The Miners of 1935 were delightfully entertained November 13-14 by old grads at Rosiclare, Illinois, at the Staff House of the Rosiclare Lead and Fluorspar Mining Co. On the evening of the 13th interesting talks were made by D. G. Gibson '23, on the geology of the district, by H. A. Hurst '21, on the mining and milling methods at the Hillside Fluorspar Mining Co., by A. W. Greeman '28, on the flotation of Fluorspar, by A. H. Cronk '12, on the operation of the Rosiclare Co. Cronk is Supt. of the Rosiclare Lead & Fluorspar Co., Hurst is Supt. of the Hillside Fluorspar Mining Co., and Gibson, Supt. of the Crystal Fluorspar Mining Co. Greeman is doing research for the Franklin Fluorspar Co. R. W. McCluskey '31, and O. M. Andres, C. E. '32, were also present. Inspection of the above properties, on the 14th, was especially worth while because of the evening's discussion. There were also good sandwiches and coffee to appreciate.

Glenn E. Crays '29, c/o Gulf Research & Development Association, Pittsburgh, Pa.

Wm. S. Hall '09, 1542 North Martel Ave., Hollywood, California. He is employed by the U. S. Gypsum Company.

Robert C. Zevallos '24, 606 Taylor Ave., Detroit, Michigan. Chas. C. Rodd of the Gypsy Oil Company has been transferred from Tulsa to New Mexico.

Lesniak, S. W., '17, has returned from Venezuela and is doing special work in Geophysics at the Colorado School of Mines, Golden, Colorado.

Brown, J. S., is geologist for the Joseph Lead Co., Edwards, N. Y. He presented an excellent paper on "The Minerals of the Balmat Mine", at the N. Y. meeting of the AIME in February.

Petsch, A. H., is Geologist for the Ohio Mexican Oil Corp., S. A. Apt. 134 Saltillo, Coahuila, Mexico.

Webb, John S., ex '20, is Mine Superintendent for Braden Copper Co., Rancagua, Chile.

Netzeband, W. F., is co-author with E. H. Crabtree, Jr., of a paper on the "Quarry and Plant of the Reliance Rock Asphalt Corporation", which was presented at the N. Y. Meeting of the AIME in February. Netzeband is Statistician for the Tri-State Zinc & Lead Ore Producers Association.

Quilliam, W. R., is Geologist for the Louisiana Land & Exploration Co., Beaumont, Texas.

Mosena, C. C., Engineer, Materials Division, Mo. Highway Commission, Blackwater, Missouri.

Richert, G. L., '22, is mining engineer for South American Development Co., Apt. 655 Guayaquil, Ecuador.

Pence, H. S., is Construction Engineer with U. S. Engineers in Alton, Ill., on the Alton Dam Project. Home address is Rolla, Mo.

Signer, M. I., is Assoc. Prof. of Mining at the Colorado School of Mines, Golden, Colorado. Signer received his E. M. Degree last year. Title of his thesis was "The Effect of Preservatives on the Inflammability of Wood."

Pett, G. H., Prof. of Mining at the Wisconsin Mining School, Platteville, Wisconsin, is one of the M. S. M.'s best boosters. Nine boys from Platteville have taken their fourth year's work at Rolla during the last 2 years.

Gammeter, Erwin, is Mining Engineer with Bell & Zoller Coal Co., Zeigler, Illinois. He gave the 1935 miners an interesting trip through their plant in November and is writing a thesis on a D-Dusting Plant in partial fulfillment of requirements for his E. M. Degree.

Parsons, E. W., '27, is with Clarence Lee Woods at the Inca Mining & Development Co., Tirapata, Peru.

Seydler, Frank K., '27, is District Engineer for Union Carbide & Carbon Co., Dallas, Texas.

Puget, A. A., Rolla, Mo., Computer, Mo. Geol. Survey, M. E. R. A.

Sievers, E. R., Project Engineer for the U. S. Forestry Service, Albuquerque, N. M.

Thomas, Harold Donnan, '28, is operating the Moselle pyrite deposit south of Rolla, Mo.

Ambler, Charles W. Jr., Paul Brown Bldg., St. Louis, is the St. Louis representative for the U. S. Gage Company.

Gross, H. E., is Trainee for the Production Department, Shell Petroleum Corporation, Tulsa, Oklahoma. He received his engineer's degree last Commencement. The title of his thesis was "Foundations for Aquatic Oil Wells".

Kozlinsky, Nicholas L., is Engineer with the American Metal, Terrero, New Mexico.

Couch, R. W., is Engineer in the Materials Department of the State Highway Commission, Jefferson City, Missouri.

Sharp, M. A., is Junior Engineer with the U. P. Coal Company, Rock Springs, Wyoming.

Long, E. C., is Mining Engineer with the St. Louis Smelting & Refining Co., Baxter Springs, Kansas.

Power, W. H., is Research Chemist with the Armstrong Cork Co., Camden, New Jersey.

Wade, R. T., is with the Schlumberger Well Surveying Corporation, Corpus Christi, Texas.

Bauman, John, is with the General Engineering Co., Adelaide House, King William St., E. C. 4, London, England.

McClusky, R. W., is Mining Engineer with the Rosiclare Lead & Fluorspar Mining Co., Rosiclare, Illinois.

Richardson, J. K., is Engineer with the U. S. Potash Co., Carlsbad, New Mexico.

Denton, J. F., is Office Engineer for the Standard Oil Company of Indiana. His address is 2820 Campbell, Kansas City, Mo.

Rose, C. K., has just sampled and reported on a large tailing pile at Randsburg, California. His maps were used to show M. S. M. freshmen what one recent graduate was doing.

"Arizona Gold Mining" is the title of an article appearing in the February issue of THE EXPLOSIVE ENGINEER. The author is Eldred D. Wilson '18, Geologist of the Arizona Bureau of Mines, Tucson, Arizona.

Mark B. Layne '28, is resident engineer in charge of installation of a water and sewer system at Clarence, Missouri.

George A. Easley '09, has been absent from New York the latter part of January on professional work in Mexico.

Clarence Lee Woods, '27, mine superintendent at the Santo Domingo mine of the Inca Mining & Development Company, Tirapata, Peru, arrived in New York early in December, and left on January 17 with Mrs. Woods, who is going down there for the first time. Mr. Woods is contemplating work on some placer ground near by. The Santo Domingo, former bonanza, is still producing but the ore is usually around a quarter to a half ounce instead of five ounces or so as in the early days. It occurs in lenses, and the ore cannot be developed far ahead on account of rapid deterioration of the timber. Forty miles of mule-back transportation is necessary to reach the property from the railroad terminus. An article describing the operations is scheduled for early publication.

John D. Harlan '10, is Manager of the Hammon Consolidated Gold Fields at Nome, Alaska.

A. L. Heitmann '25, R. F. D. No. 4, Lincoln, Illinois.

Paul Hatmaker '23, is with the National Lime Association, 927 15th Street, N. W., Washington, D. C.

R. J. Victor '32, is with the Nevada Testing Laboratory, 233 East Plaza, Reno, Nevada.

"The Geography of Johnstown Pennsylvania" is the title of a bulletin of Penn. State written by R. E. Murphy '23, Assistant Professor of Economic Geography.

J. Howard Hell, ex '31, has resigned his position with the Braden Copper Company and is on his way back to the States. His new address will be in care of Frank Duncan, Terlingua, Texas.

L. L. (Duke) Ellis '30, General Mine Foreman for Cerro de Pasco, Morococaha, Peru.

Felipe Ore '21, is in charge of the Safety First Work for Cerro de Pasco at La Oroya, Peru.

Swalley, J. L., R. R. No. 3, Baxter Springs, Kansas, is Mill Engineer at the Big Eagle Picher Plant near Miami, Oklahoma.

Arthur S. Macke '32, is at the Thermal Mine of the Madison County Coal and Mining Company, Edwardsville, Ill.

C. R. Forbes, Professor of Mining, has been on leave of absence for the past three years. Part of this time was spent operating gold properties in California. At present Professor Forbes is taking special graduate work in anticipation of his return to M. S. M. for the fall term.

(Continued on Page 11)

Civil Engineering

Louis W. Pickles '30, is with the Missouri Highway Department at Brice, Missouri.

C. W. Lamers '32, spent Monday, January 7th in the laboratories making some tests on rubber belting. Lamers is Special Representative of the Teuscher Pulley and Belting Company of St. Louis.

John E. McCauley '27, is with Sloan & Cook, Consulting Engineers, 120 South LaSalle St., Chicago.

Charles C. (Chuck) Whittelsey, ex '26, 411 Hart Street, Monroe, Louisiana. (home address).

George T. Dierking, '24, 914 Broad Street, Rome, Georgia. (home address).

Howard B. (Ducky) Moreland '28, is in charge of a CCC Camp at Combs, Arkansas.

A. J. Boles and John W. Mashek '35, are with the Bridge Department of the Missouri State Highway Department at Jefferson City, Mo.

H. B. Atkinson and Max Edgar '35, are Student Engineers, Soil Eroison Service, Bethany, Mo.

B. H. Rucker, Jr., is with the Soil Eroison Service at Bethany, Mo.

Vernon Asher '33, C. H. Beardsley '33, Leland E. Grafft ex '35, and John McKinley '34, are now employed with the U. S. Forest Service and are located in the Missouri Ozarks.

R. J. Kenyon ex '22, is in charge of Materials Testing with the Illinois State Highway Department at Elgin, Ill.

Russell G. Kenyon ex '23, is district engineer, Illinois State Highway Department, LaSalle, Ill.

Electrical Engineering

Wm. M. Pickles, Jr. '32, will complete Ph. D. in E. E. next June '35, at California Tech. He is still doing research in the Physics Department there and also attending school.

H. T. Ford '34, is in the electrical business with his father in Joplin, Mo.

W. J. Irwin '34, and K. H. Sievers '34, are sales representatives for the Midwest Air Conditioning Corporation of St. Louis.

C. E. Kew '34, is working on Diesel-Electric installations for the Frisco at Springfield, Mo.

C. E. Kozeny '34, is with the Emerson Electric Company of St. Louis.

Raese W. Simpson '34, is with the U. S. Engineers at Columbus, Nebraska.

J. E. O'Bryant '34, is with the International Harvester Company at Springfield, Mo.

R. W. Borchers '33, is in charge of a CCC Camp in Nebraska.

R. L. Braeutigam '33, is with the Illinois Power and Light Company at Belleville, Illinois.

A. W. Jurvic '33, and M. G. McCrory '33, are with the Weirton Steel Company at Steubenville, Ohio.

J. D. Martin '33, is doing graduate work at the School of Mines.

L. K. Johnson '32, is Arc-Welding Engineer for the Midwest Piping and Supply Company of St. Louis.

V. G. Klesath '32, is Manager for the Missouri General Utilities at St. James, Mo.

G. L. Leisher '32, is with the Fox Consulting Engineering Corporation of St. Louis.

M. R. James '31, is in the moving picture business at St. James, Mo.

Max E. Ueltzen '31, is with the U. S. Engineers at Gasconade, Mo.

A. R. Baron '31, is with the Missouri Relief and Reconstruction Commission at Jefferson City, Mo.

E. H. Woodman '30, is with the U. S. Engineers at Memphis, Tennessee.

T. O. English '29, is Electrical Engineer for the Aluminum Ore Company of East St. Louis.

D. B. Meshevsky '29, formerly with the Emerson Electric Company, has gone into business in Dallas, Texas.

L. H. Scheutte '29, Engineer for the Underwriters Laboratories, Chicago, was visiting in Rolla during the Christmas

Holidays.

R. F. McCaw '27, District Engineer for the Central States Power and Light Company at Albert Lea, Minnesota, visited in Rolla the past summer.

Leo E. Shire '25, Engineer for the Andian Oil Corporation at Cartagena, Colombia, S. A., visited the States last fall. He returned to South America on another three-year contract.

Chemistry

H. L. Chamberlain, '32, is working with the U. S. Bureau of Mines at Rolla, Mo. His work is chiefly concerned with ball mills.

E. C. Hoeman, '32, who was formerly with the Western Lime Works at St. Genevieve, Mo., is now with the State Geological Survey at Rolla, Mo., working on the determination of fluorine and manganese in Missouri waters.

E. C. Meckfessel, '32, who was formerly with the General Chemical Co., of East St. Louis, Ill., is now employed with the State Geological Survey at Rolla, Mo., working on the determination of bromine and iodine in Missouri waters.

W. O. Keeling, chemical engineer with the Koppers Company, is at present located in St. Louis during the construction of an experimental plant for the Laclede Gas Co.

Andy Kassay, '31, has received a promotion and was sent east to the plant of the Titanium Paint and Pigment Company. Prior to his promotion, he was located with the St. Louis plant.

Cole County Alumni

The Alumni and former students of the School of Mines and the University of Missouri held a meeting on March 9th at Jefferson City. After dinner, which was served at 6:30, there were a number of talks after which motion pictures of Boulder Dam were shown. Several faculty members from Rolla attended the meeting. John K. Walsh '17, member of the Board of Curators, was present.

Ceramics

Charles A. Freeman '28, Ceramic Engineer with the A. P. Green Fire Brick Co., Mexico, Mo., spent the week-end before St. Pat's in Rolla.

Hugo L. Harrod '29, is in charge of the tunnel kilns at Harbison Walker Refractories Co., Vandalia, Mo.

Wm. R. Powell '30, is Control Engineer with the A. P. Green Fire Brick Co., Mexico, Mo.

Allen R. Maune '30, is in charge of the shipping department at the Walsh Plant of Harbison Walker Refractories Co., Vandalia, Mo.

Willard E. Davis '30, is at present Office Engineer with the M. E. R. A., Rolla, Mo.

F. F. Netzeband '30, is with the Government Reforestation Service and has recently been transferred to Steelville, Mo.

George A. Page '30, is Ceramic Engineer for the Stockton Fire Brick Co., Pittsburg, California.

Elmer F. Cirkal '30, has been promoted to the position of Mine Superintendent for the U. S. Gypsum Co., at Southard, Okla.

Charles W. McCaw '31, is doing topographic work with U. S. G. S. at Liberty, Mo.

H. R. Herron '31, is in charge of the hand molding department of the Walsh Plant of the Harbison Walker Refractories Co., Vandalia, Mo.

Stanley J. Tompach '31, is chemist at the Wood River Refinery of the Standard Oil Co., Wood River, Ill.

James J. Offutt '32, is Sales Engineer in the Chicago District for the A. P. Green Fire Brick Company.

Joe E. Stevens '32, has recently been made laboratory superintendent for the A. P. Green Fire Brick Co., Mexico, Mo.

(Continued on Page 10)

U. S. Army

Captain C. R. Mize '21, is with the Finance Department, Headquarters, First Corps Area, Army Base, Boston, Massachusetts.

Lieutenant L. E. Lepper '22, is with the Quartermaster Corps, Fort Bragg, North Carolina.

Brigadier-General F. C. Bolles '22, has been promoted to the rank of Major-General. He has been ordered to Fort Sam Houston, Texas, where he will take command of the Second Division Headquarters.

Lt. George A. Zeller, '23, Ordnance Department, United States Army has been transferred from Aberdeen Proving Grounds, Maryland, to Fort Bliss, Texas.

P. B. Shotwell, ex '17, is a Captain in the Second Cavalry stationed at Fort Riley, Kansas.

Ceramics

(Continued from Page 9)

Henry W. Meyer '32, has charge of the laboratory at General Refractories Co., North & South Road, Clayton, Mo.

Wm. T. Kay '32, has recently been sent to the New York Sales office of the A. P. Green Fire Brick Co., of Mexico, Mo., as a sales engineer.

Robert S. Green '33, and Allan P. Green, Jr., Mechanical '33, are enjoying a trip around the world.

Kenneth E. Evans '33, has gone back to Fleming, Ohio.

A. W. Beinlich '33, is with the U. S. G. S. and at present stationed in Rolla.

Bob Weigel '34, has accepted a position with Mexico Refractories Company, Mexico, Mo. Bob and his wife (Margaret Hough, ex '36) are now living in the Coil Apartments, Mexico, Mo.

A. E. Lee '31, is with the Missouri State Highway Testing Laboratory, Jefferson City, Mo.

Robert L. Stone '34, who is a teaching fellow in the Ceramic Department of North Carolina State College, Raleigh, N. C., spent the holidays in Rolla.

Civils See Tests

The Junior and Senior Civils went on a tour of inspection, last Saturday, of the laboratories of the State Highway Commission at Jefferson City, where they were given lectures by the laboratory technicians, and witnessed the various tests to which the state specifications require that Bituminous and Asphaltic materials be exposed.

Each of the tests was run according to specifications of the A. S. T. M. standards, and an interesting fact noted, was the allowable per cent of errors in the test, which was exceedingly small in every case.

Anniversary Is Observed

(Continued from Page 5)

Association contributed its own column of news, and acted as both solicitors of news and advertising.

However, too much credit cannot be given to those three brave men who entered the blizzard-like field of student publications in that stormy month of February, and emerged victors over the elements of criticism and ridicule after spring thaws, and who are definitely responsible for the founding of the present day bit of editorial perfection which emerges each week to fill the student body with awe.

A decided improvement can be noted in the quality of the Miner since its birth, but it is still, as it always has been, the silent spokesman, carrier of news, good and bad, for the Alumni, faculty and student body for the Missouri School of Mines and Metallurgy.—*Miner*.

A. I. M. M. E.

At the February meeting of the institute, Dr. H. A. Buehler (The Chief), State Geologist of Missouri and Engineer for the Federal Emergency Relief Administration was made president.

M. S. M. was well represented at this meeting.

Among those present were:—

V. H. Gottschalk '98	U. S. Bureau of Mines, Pittsburgh, Pa.
A. D. Terrell '98	National Zinc Co., Bartlesville, Okla.
W. M. Weigel '00	Missouri Pacific Railroad, St. Louis, Mo.
H. R. Hanley '01	Rolla, Mo.
A. H. Fay '02	Mine Engineering Dept., Lafayette College, Easton, Pa.
W. H. Gill '03	National Zinc Co., Bartlesville, Okla.
P. K. Horner '06	Consulting Engineer, London, England.
J. H. Steinmesch '06	Rolla, Mo.
H. T. Mann '08	Pet. Engrg. Dept., M. I. T., Cambridge, Mass.
George A. Easley '09	International Mining Corp., New York City.
E. P. Barrett '09	U. S. Bureau of Mines, Pittsburgh, Pa.
John Stewart '10	New York City.
Rowland Cox '11	Consulting Mining Engineer, New York City.
Chas. Y. Clayton '13	Rolla, Mo.
E. R. Needles '14	Consulting Engineer, New York City.
M. J. Kelly '14	Bell Laboratories, New York City.
R. S. Dean '15	Chief Metallurgist, U. S. B. M., Washington, D. C.
W. D. Beeghley, ex '15	Master Mechanic, Stamford, Connecticut.
J. L. Head '16	Chile Copper Corporation, New York City.
E. S. Tompkins, ex '16	Tompkins Machinery Co., New York City.
John S. Brown '17	St. Joe Lead Co., Edwards, N. Y.
H. J. Teas '17	Civil Engineer, Malvern, Long Island, N. Y.
Hanley Weiser '18	Nassau Smelting & Refining, Staten Island, N. Y.
M. S. Badollet '21	Somerville, N. J.
G. J. Christner '22	Ingersoll-Rand, East Orange, N. J.
Leo Linzer, ex '23	Jobber in Metals, New York City
Paul Hatmaker '23	National Lime Association, Washington, D. C.
C. B. Kentnor '24	Sales Engineer, New York City.
Roger Day '25	Linde Air Products, New York City.
H. A. Buehler '25	Rolla, Mo.
Joe Reid '27	St. Louis Smelting & Refining, St. Louis, Mo.
Eugene McAuliffe '27	Union Pacific Coal Co., Omaha, Nebraska.
W. H. Knight '27	General Chemical Co., New York City.
T. D. Murphy '28	Industrial Silica Corp., Youngstown, Pa.
A. A. Pollock '33	Plainfield, N. J.

Bonanza Club Alumni Join Alpha Lambda Tau

(Continued from Page 3)

at St. Pat's celebrations, the old Bonanzas who were not present Saturday, March 16, 1935, will drift in and be inducted into the Order of Alpha Lambda Tau.

When conditions permit the alumni group expects to organize an active chapter on the campus.

The Alumnus congratulates the Bonanza Alumni for their loyalty and continued interest in M. S. M.

Senior Ceramists Take Trip

The seniors of the Ceramic Department, accompanied by Prof. C. M. Dodd, left Rolla, Feb. 15 to attend the annual convention of the American Ceramic Society at Buffalo, N. Y.

During the technical sessions each of the seniors was assigned to a division of the society and will report on the technical papers given at future meetings of the Orton Society.

In addition to attending the meetings of the American Ceramic Society, the group visited the Lacawanna Steel Plant, one of the largest of the Bethlehem group, where they saw refractories in service in open hearths, blast furnaces and coke ovens, also equipment for unloading lake freighters.

Other outstanding plants which they visited were:

The Erie plant of the General Electric Co., where motors, locomotives and porcelain enameled refrigerators are manufactured.

The Carborundum Co. where abrasive and refractory materials are produced.

The Huntley (steam) and the Niagra (hydraulic) Power Plants.

The Niagra Wall Paper Company and the Hammermill Paper Company, the latter, one of the largest manufacturers of bond papers in the world.

At a meeting of Refractories Committee C-8 of the American Society for Testing Materials, Prof. Dodd presented a report on hot load test for refractories, in which the operation of the new globar electric furnace, built by aid of F. E. R. A. funds in the Ceramic Department, was explained.

Epsilon Pi Omicron

Epsilon Pi Omicron since its formation in 1932, has made considerable progress and growth. One of the objects of this fraternity is to develop a professional attitude and contacts of those making the fields of chemistry a profession. This has been accomplished at the regular bi-monthly meetings by having prominent speakers from the St. Louis district to address the group on professional subjects. Members and pledges have also prepared and presented professional papers.

Many letters have been received from the alumni of this organization regarding their experiences and giving valuable information on chemical engineering.

The officers are:—H. F. Lange, Pres., J. F. Zvanut, Vice-Pres., E. C. Fiss, Sec'y., C. R. Maise, Treas., and J. S. Sabine, Historian.

Mining

(Continued from Page 8)

B. E. Charles has returned to Salina, Kan., after over a year spent in mine exploration work in Chihuahua, Mexico.

W. H. Seamon, Jr., who owns a custom mill at El Pilar, Chihuahua, has recovered from a serious illness and is reported to be planning the reopening of the San Antonio mine.

Frank C. Mulford has been in Denver in connection with getting equipment for the new mill now under construction by the Rochester Plymouth Mines Co., Rochester, Nev. Mr. Mulford is making his headquarters at Lovelock, Nev., and dividing his time between the Rochester Plymouth and the Como Mines Company's property at Dayton, Nev., the milling operations of both of which he will superintend.

R. G. Montgomery, '34, has been transferred from the Natural Gas Plant of Phillips at Kaw, Okla., to the Geophysical crew of Phillips at Holdenville, Okla.

Felix Schleenvoigt, ex '34, is Junior Engineer with the North London Gold Mine, Alma, Colo. He expects to return to school in the fall.

Theta Tau

The Chapter began the year with eight actives including officers: Regent O. Kamper, Vice-regent N. Gilsdorf, Scribe J. Russe, Treasurer R. Knoll, Corresponding Secretary H. Dallmeyer, and members J. Murphy, A. Koopmann and E. Nickel. The following ten men were initiated on November 8th: D. Dutton, R. Fisher, W. Graff, L. Holtman, J. Hubbard, R. Johnson, G. Nations, G. Nolde, W. Schwalbert and J. Turk. After the initiation a banquet was held at the Sinclair Tavern in their honor, and on November 15, they were honored with a dance also at the Tavern.

Plans were discussed, at the opening of school, to establish a house for the Chapter but due to complications the plans were not completed.

During the year the chapter had carried on an active and interesting program including talks given by members of the faculty and chapter. At the present time the Chapter is carrying on the spring pledging which will be followed by a banquet and spring dance.

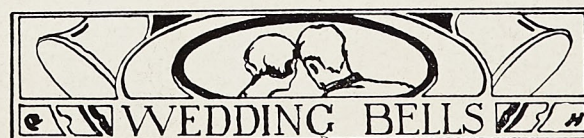
A. I. E. E.

The local Branch of the A. I. E. E. has been very fortunate this year in having obtained such prominent speakers as Stanley Stokes, L. H. Woolston, G. A. Waters, and L. Lawther for its meetings. Large enthusiastic audiences have marked each meeting, and a splendid spirit of fellowship has been developed in the organization. The organization is indebted to the Electrical Professor's wives for the appetizing refreshments which they have donated during the past year.

The success of the organization may truly be attributed to the excellent cooperation received from the St. Louis Section of the A. I. E. E. The officers of the society are Fred-eric Holt, Chairman; L. W. Holtman, Vice-president; K. O. Hanson, Secretary; and I. H. Lovett, Consul.



George C. Breckinridge, ex '07, died while on his return to the United States from Russia in '33.



R. E. (Dick) Taylor '34, and Miss Elizabeth Waller of Shawneetown, Illinois, were married December 27, 1934. Dick is with the General Steel Castings, and the couple reside at 704 14th Avenue, Prospect Park, Pa.

Wm. Newton Coffman '34, married Gladys Loughridge on Thanksgiving Day. They reside in Rolla. Newt is running an investigation on Missouri Stoneware Clays for the M. E. R. A.

George Sellers '34, married Marie Mitchell of Rolla, shortly after his graduation. George is with the Buckeye Clay Pot Company of Toledo, Ohio.

Clifford F. Page '31, and Miss Cecille Mason were married January 9, 1935, at Chadron, Nebraska. They are living at 1901 3rd Avenue, Scottsbluff, Nebraska.

Robert C. Merrill ex '32, and Miss Virginia Papin Caskey were married March 9, 1935, in Joplin. Mr. and Mrs. Merrill will make their home in Joplin.

It always has stopped raining



Life begins at sixty

They Satisfy